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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,852	02/22/2006	Hiromi Yoshida	JFE-05-1840	9915
	7590 05/14/200 DLA PIPER US LLP	8	EXAMINER	
ONE LIBERTY			YEE, DEBORAH	
1650 MARKET ST, SUITE 4900 PHILADELPHIA, PA 19103			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			05/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commons	10/566,852	YOSHIDA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Deborah Yee	1793				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
<i>,</i> —	·—					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
dissect in assertation with the practice and in E.	A parte gaayie, 1000 G.B. 11, 10	0.0.210.				
Disposition of Claims						
4)⊠ Claim(s) <u>11-29</u> is/are pending in the application	ı.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>11-29</u> is/are rejected.	· _ · · · · · · · · · · · · · · · · · ·					
7) ☐ Claim(s) is/are objected to.						
	election requirement					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>01 February 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The path of declaration is objected to by the Ex-	animer. Note the attached Office	Action of form F10-132.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents						
3. Copies of the certified copies of the prior						
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Coo and almost dominor chief added for a local title dominor doplos for follower.						
Attachment(s)						
1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
(2) ☐ Notice of Dransperson's Patent Drawing Review (PTO-948) X Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>2/1/06;11/29/06</u> . 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 11 to 29 are rejected under 35 U.S.C. 102(b) as being anticipated by the computer-generated English translation of Japanese patent 2002-226941 to Takashi (hereinafter <u>JP'941</u>).
- 3. Specific steel examples F, I, K, and O in table 1 on page 13 of <u>JP'941</u> meet the claimed composition and when calculated, satisfy the claimed equation (Nb/93)/(C/12) = 0.2 to 0.7; and when calculated, example O satisfies the claimed equation $(Ti/48)/\{(S/32) + (N/14)\} \le 2.0$.
- 4. In addition, specific steel examples are processed in the same manner as claimed by Applicants to obtain tensile strength \geq 440 MPa and $r \geq$ 1.2, and exhibits a microstructure of ferrite phase \geq 50 % and martensite phase \geq 1%. See paragraphs [0043] to [0056] and Table 2 wherein steel is subjected to hot rolling with a finishing temperature 900°C, coiling at 650°C, cold rolling, annealing between 800-950°C, and cooling at \geq 5°C/sec. followed by plating steel surface.
- 5. Even though <u>JP'941</u> does not teach the X-ray intensity ratios as recited by claims 12, such would be expected since composition and process of making are met, and in absence of proof to the contrary.

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6. Even though steel of <u>JP'941</u> additionally contains V, such would not be excluded by the claimed limitation "comprising" which is inclusive of non-recited elements.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 11 to 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over the computer-generated English translation of Japanese patent 2002-226941 to Takashi (hereinafter JP'941).
- 9. Specific steel examples F, I, K and O meet the recited claims for the reasons stated in the 35USC102 (b) rejection above but additionally contain vanadium. It has been held, however, that to omit an element (vanadium) as Applicants have done with the consequent loss of its known function (drawability) would not be a patentable distinction. Note <u>JP'941</u> in paragraphs [0030] and [0031] teaches vanadium can be replaced with niobium and titanium but drawability can not be fully improved.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Yee/ Primary Examiner Art Unit 1793

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